In the Claims:

Kindly modify the claims as follows:

1. (Currently Amended) A method of allowing entities to cooperate for implementing one or more processes, the method being part of a computer system, comprising:

(a) registering entities as providers of objects;

(b) associating each of the objects with at least one semantic term, said associating done by the entities;

(c) allocating a tuple to each of the at least one semantic terms, the tuple containing information provided by the object corresponding to the meaning of the at least one semantic term, allowing the tuple to be found in at least one Tuple Spaces;

~~(a)~~(d) storing and retrieving information in the form of tuples;

~~(b)~~(e) using the tuples to represent objects involved in one or more processes, wherein each object is registered by an entity; and

~~(c)connecting the tuples with keys to represent sequential events of the one or more processes~~

(f) representing the conditions, based on semantic terms, under which the entity can produce one or more of the objects, by using keys, said keys defined by the entities.

2. (Canceled)

3. (Currently Amended) The method of claim ~~2~~1 further comprising:

~~(f)~~ (g) indicating one or more of any of the semantic terms in any order to represent a goal of the one or more processes.

4. (Currently Amended) The method of claim ~~21~~ further comprising:

~~(f)~~ (g) generating streams representing chains of events composed of sequential events which terminate at the tuples corresponding to each semantic term.

5. (Currently Amended) The method of claim ~~21~~ further comprising:

~~(f)~~ (g) generating semantic categories by aggregating any of the semantic terms in any order.

6. (Canceled)

7. (Currently Amended) An apparatus for allowing entities to cooperate for implementing one or more processes, the apparatus being part of a computer system.comprising:

(a) means for registering entities as providers of objects;

(b) means for associating each object with at least one semantic term, said means for associating done by the entities;

(c) means for allocating a tuple to each of the at least one semantic terms, the tuple containing information provided by the object corresponding to the meaning of the at least one semantic term, allowing the tuple to be found in at least one Tuple Spaces;

~~(a)~~(d) means for storing and retrieving information in the form of tuples;

~~(b)~~(e) means for represent objects involved in one or more processes by using the tuples, wherein each object is produced by an entity; and

~~(c) means for connecting the tuples with keys to represent sequential events of the one or more processes~~

(f) means for representing the conditions, based on semantic terms, under which the entity can produce one or more of the objects, by using keys, said keys defined by the entities.

8. (Canceled)

9. (Currently Amended) The apparatus of claim ~~8~~ 7 further comprising:

~~(f)~~ (g) means for indicating one or more of any of the semantic terms in any order to represent a goal of the one or more processes.

10. (Currently Amended) The apparatus of claim ~~8~~ 7 further comprising:

~~(f)~~ (g) means for generating streams representing chains of events composed of sequential events which terminate at the tuples corresponding to each semantic term.

11. (Currently Amended) The apparatus of claim ~~8~~ 7 further comprising:

~~(f)~~ (g) means for generating semantic categories by aggregating any of the semantic terms in any order.

12. (Canceled)

13. (Currently Amended) An article of manufacture, being part of a computer system, for allowing entities to cooperate for implementing one or more processes, the article of manufacture comprising a computer ~~readable medium~~ usable media holding computer-executable instructions for performing a method comprising:

(a) registering entities as providers of objects;

(b) associating each of the objects with at least one semantic term, said associating done by the entities;

(c) allocating a tuple to each of the at least one semantic terms, the tuple containing information provided by the object corresponding to the meaning of the at least one semantic term, allowing the tuple to be found in at least one Tuple Spaces;

~~(a)~~(d) storing and retrieving information in the form of tuples;

~~(b)~~(e) using the tuples to represent objects involved in one or more processes, wherein each object is produced by an entity; and

~~(c) connecting the tuples with keys to represent sequential events of the one or more processes~~

(f) representing the conditions, based on semantic terms, under which the entity can produce one or more of the objects, by using keys, said keys defined by the entities.

14. (Canceled)

15. (Currently Amended) The article of manufacture of claim ~~14~~ 13 wherein the computer-executable instructions perform a method further comprising:

~~(f)~~ (g) indicating one or more of any of the semantic terms in any order to represent a goal of the one or more processes.

16. (Currently Amended) The article of manufacture of claim ~~14~~ 13 wherein the computer-executable instructions perform a method further comprising:

~~(f)~~ (g) generating streams representing chains of events composed of sequential events which terminate at the tuples corresponding to each semantic term.

17. (Currently Amended) The article of manufacture of claim ~~14~~ 13 wherein the computer-executable instructions perform a method further comprising:

~~(f)~~ (g) generating semantic categories by aggregating any of the semantic terms in any order.

18. (Canceled)